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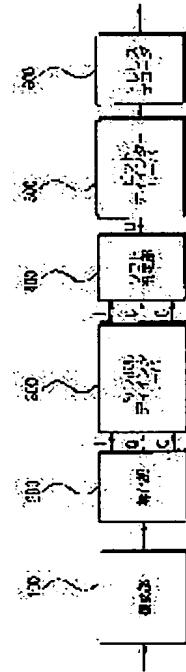
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(54) APPARATUS FOR CORRECTING DATA ERROR USING CHANNEL STATE INFORMATION

(57)Abstract:

PROBLEM TO BE SOLVED: To provide an apparatus for correcting data errors which is improved in decoding performance to original signals.

SOLUTION: A soft decision block for adding a weighted value relating to a channel state information to I and Q symbols, on which soft decision is made, conducts soft decision of the I and Q symbols and adds the weighted value of the channel state information to the I and Q symbols. A bit interleaver interleaves the data bit by bits corresponding to the I and Q symbols, to which soft decision is made so that the signal processing load on the bit interleaver conducting interleaving is reduced. Thus, the decoding performance of a trellis decoder correcting data errors and decoding the data to the original signals is improved.



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